

ABSTRACT OF THE DISCLOSURE

[0073] A system and method for determining a threat level associated with a collection of detected objects within a geographical area of interest are disclosed. A set of formation templates representative of organizational patterns are defined. Configurations for the templates are defined. Data is collected from objects detected in the area of interest. A density image is generated based on the geographic locations of the detected objects. Sections of the density image that are too sparse to contain a formation are determined and excluded from further analysis. The density image is compared to each of the template configurations. The probability of finding points in each of the template cells for each of the template configurations is determined. The probable formation(s), if any, based on the probability of finding points in each of the template cells for each of the possible configurations of each of the possible templates is determined. If this probability is greater than the null hypothesis (no formations), probable formation(s), if any, are reported.

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